

MasterGlenium 3520

High range water reducing admixture for concrete EN 934-2: T3.1 & T3.2

DESCRIPTION

MasterGlenium 3520 is an innovative versatile admixture based on polycarboxylic ether (PCE) polymers. MasterGlenium 3520 is specially engineered for the ready-mix concrete market to replace traditional water reducers and superplasticizers. Its configuration allows it to perform as a multifunctional admixture; it is possible to obtain a high quality concrete mix with good strength development and extended workability without delayed setting characteristics.

"The Total Performance Control" concept ensures that ready-mix producers, contractors and engineers get a concrete that is of the same high quality as originally specified; starting from production at the batching plant, to the delivery and application into place, and followed by its hardening process. Utilizing Rheodynamic[™] concrete technology it provides a concrete mix with exceptional placing characteristics.

FIELDS OF APPLICATION

MasterGlenium 3520 is used for the production of all grades from high quality to low specification readymix concrete.

MasterGlenium 3520 may be used in combination with MasterMatrix admixtures for producing Rheodynamic[™] concrete, capable of selfcompaction, even in the presence of dense reinforcement.

FEATURES and BENEFITS

MasterGlenium 3520 offers the following benefits for:

The Ready-mix Producer:

- Capability of delivering high quality concrete at any time to the job site in place.
- Production of a concrete with low water cement ratio that meets EN 206-1 without loss of workability.
- Single product for most applications from everyday water reducing to Self-compacting Concrete.

The Contractor / Applicator:

- Easier placing.
- Improved concrete surfaces.
- Guarantee to place the same concrete as specified and ordered from ready-mix plant.
- More versatile and forgiving concrete mix..

The Engineer:

- Insurance that concrete meets original specification.
- High quality concrete with better durability.

DOSAGE

The normally recommended dosage rate of MasterGlenium 3520 is approximately:

• *By Weight* - 0.8 to 1.5 kg per 100 kg of cement (binder) content.

The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized in special cases according to specific job conditions. If required consult Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. Where the concrete is to be machine finished by utilizing power float or power troweling methods, we recommend that you contact with Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department for dosage rate guidance.

MIXING

MasterGlenium 3520 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal performance is obtained if MasterGlenium 3520 is dispensed into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted out. Avoid adding the admixture to the dry aggregates.

EFFECTS OF OVERDOSING

The detrimental effects of an overdose of MasterGlenium 3520 will depend upon the magnitude of the overdose in that an increase in initial setting time will occur. Provided the concrete is protected and cured, this will not necessarily result in any reduction in 28 day strength. The consistence (slump) of the concrete will be increased or the concrete will have a lower water content than the original mix design due to the additional plasticizing effects of the overdose. In addition to this there may be an increase in air entrainment.



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COMPATIBILITY

MasterGlenium 3520 can be used with all types of **EN 197** Cements. For use with other special cements, contact our Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department.

MasterGlenium 3520 should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing MasterGlenium 3520 they must be dispensed separately.

MasterGlenium 3520 is not compatible with MasterRheobuild superplasticizers. In order to optimize special requirements the use of the following complementary additives is suggested:

- Viscosity modifying agent MasterMatrix to produce Rheodynamic[™] concrete
- Air entraining agent MasterAir to improve frost/thaw resistance

When such complimentary admixtures are required it is important that laboratory trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances we recommend that you consult our Master Builders Solutions Yapp Kimyasalları Sanayi ve Ticaret Ltd.Şti Technical Services Department for further advice.

PACKAGING

MasterGlenium 3520 is supplied in bulk and 1000-kg IBC's.

Product Data	
Structure of the Material	Modified Polycarboxylic Ether Based
Appearance	Brown liquid
Specific gravity @ 20°C	1.04 - 1.06 kg/lt
pH-value	5-7
Alkali content (%):	≤ 3.00 by mass
Chloride content (%)	≤ 0.10 (by mass)
Corrosion behaviour	Contains only components according to BS EN 934-1:2008, Annex A.1
Dangerous substances	Comply with annex AZ.
Logistics	
Shelf life	12 months if stored according to manufacturer's instructions in unopened container.
Storage conditions	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation	Refer to MasterGlenium 3520 Safety Data Sheet.
Disposal	Refer to MasterGlenium 3520 Safety Data Sheet.



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HEALTH AND SAFETY

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

SPILLAGE

Chemical products can cause damage; clean spillage immediately

DISCLAIMER

"Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd.Şti." (the Company) endeavors to ensure that advice and information given in Product Data Sheets. Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use. Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application. Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest product literature.

CONTACT INFORMATION

Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Head Office Adress : Barbaros Mah. Begonya Sok. Nidakule Ataşehir Kuzey C Kapısı No:3E/5 ,34746 Ataşehir, İstanbul, Türkiye Tel: 0216 217 88 00 Mail: <u>mbs.tr@mbcc-group.com</u> <u>www.master-builders-solutions.com/tr-tr</u>

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